

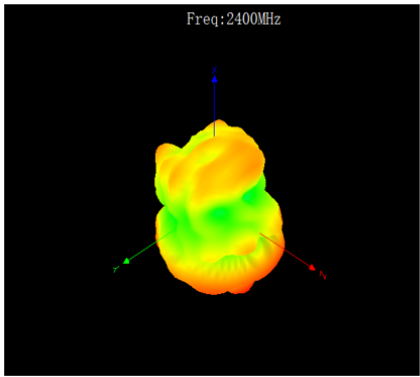
Antenna Specification

Manufacturer	Shanghai Sunmi Technology Co.,Ltd.
Address	Room 505, No.388 Song Hu Road, Yang Pu District, Shanghai, China
Model	SP01
Product Name	BT&WIFI&GPS Antenna
Antenna Type	Internal Antenna
Antenna Photographs	
S Parameter (Return Loss, Smith)	

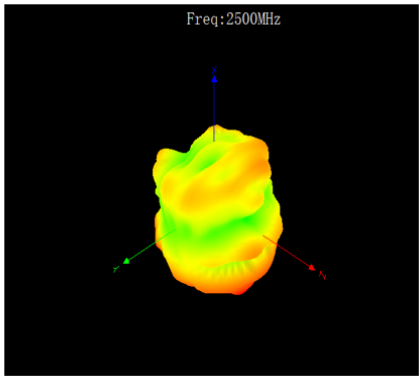
Antenna Gain&Efficiency	frequency (MHz)	Gain (dBi)	Efficiency(dB)	Efficiency(%)
	1550	1.32	-4.93	32.12
	1555	1.55	-4.92	32.19
	1560	1.88	-4.97	31.83
	1565	1.5	-4.98	31.75
	1570	1.67	-4.98	31.75
	1575	1.78	-5.03	31.39
	1580	1.67	-5.05	31.25
	1585	1.04	-5.11	30.81
	1590	1.18	-5.10	30.88
	1595	1.13	-5.12	30.74
	1600	1.87	-5.08	31.03
	2400	1.68	-4.22	37.86
	2410	1.25	-4.04	39.46
	2420	1.88	-3.97	40.10
	2430	1.37	-4.08	39.10
	2440	1.42	-3.99	39.92
	2450	1.39	-3.94	40.38
	2460	1.61	-4.19	38.12
	2470	1.13	-4.13	38.65
	2480	1.29	-4.35	36.74
	2490	1.62	-4.40	36.32
	2500	1.83	-4.21	37.95
	5150	1.89	-5.57	27.73
	5160	2.37	-5.52	28.03
	5170	2.8	-5.57	27.71
	5180	2.22	-5.57	27.71
	5190	2.81	-5.56	27.80
	5200	2.57	-5.55	27.85
	5210	2.35	-5.53	27.96
	5220	2.05	-5.51	28.14
	5230	2.35	-5.53	28.01
	5240	1.77	-5.51	28.14
	5250	2.25	-5.51	28.14
	5260	1.94	-5.51	28.10
	5270	2.33	-5.53	27.98
	5280	1.99	-5.29	29.60
	5290	2.85	-5.33	29.33
	5300	2.29	-5.37	29.07
	5310	2.14	-5.15	30.58
	5320	2.08	-5.16	30.46
	5330	2	-5.22	30.08
	5340	1.77	-5.23	30.02
	5350	2.68	-5.04	31.35
	5360	1.85	-5.02	31.47
	5370	2.39	-5.13	30.69
	5380	2.45	-5.16	30.47
	5390	2.5	-5.18	30.36

	5400	2.18	-5.14	30.64
	5410	2.61	-5.21	30.14
	5420	1.92	-5.21	30.12
	5430	2.25	-5.18	30.34
	5440	2.55	-5.25	29.88
	5450	2.04	-5.22	30.05
	5460	2.12	-5.27	29.74
	5470	2.73	-5.33	29.33
	5480	2.45	-5.33	29.33
	5490	2.83	-5.40	28.87
	5500	3.04	-5.42	28.71
	5510	2.33	-5.45	28.49
	5520	2.45	-5.47	28.38
	5530	2.08	-5.47	28.35
	5540	2.53	-5.50	28.21
	5550	2.18	-5.51	28.13
	5560	2.68	-5.53	28.01
	5570	2.17	-5.54	27.95
	5580	2.39	-5.56	27.80
	5590	2.12	-5.58	27.66
	5600	2.06	-5.60	27.56
	5610	1.49	-5.62	27.41
	5620	1.53	-5.65	27.23
	5630	1.09	-5.69	26.99
	5640	1.16	-5.71	26.86
	5650	1.29	-5.73	26.75
	5660	0.97	-5.73	26.71
	5670	0.97	-5.73	26.71
	5680	1	-5.75	26.60
	5690	0.57	-5.75	26.63
	5700	0.86	-5.78	26.44
	5710	1.2	-5.79	26.38
	5720	0.96	-5.80	26.33
	5730	0.77	-5.80	26.29
	5740	0.44	-5.82	26.15
	5750	0.25	-5.83	26.15
	5760	0.37	-5.84	26.06
	5770	0.01	-5.84	26.05
	5780	0.25	-5.86	25.95
	5790	0.07	-5.89	25.78
	5800	0.25	-5.87	25.90
	5810	0.31	-5.89	25.75
	5820	0.45	-5.88	25.83
	5830	0.16	-5.88	25.79
	5840	0.18	-5.90	25.70
	5850	0.08	-5.88	25.84

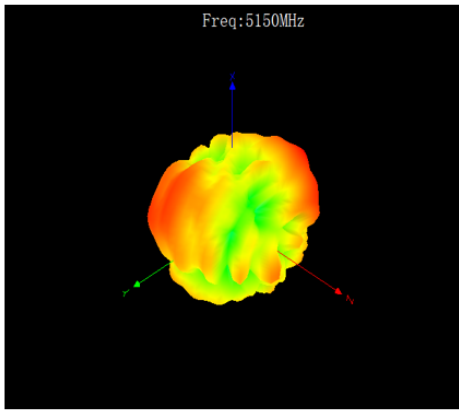
Radiation Pattern:



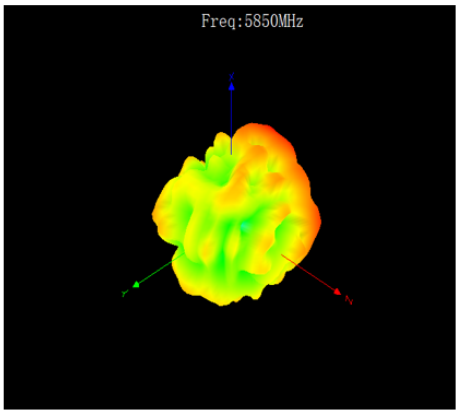
2400MHz



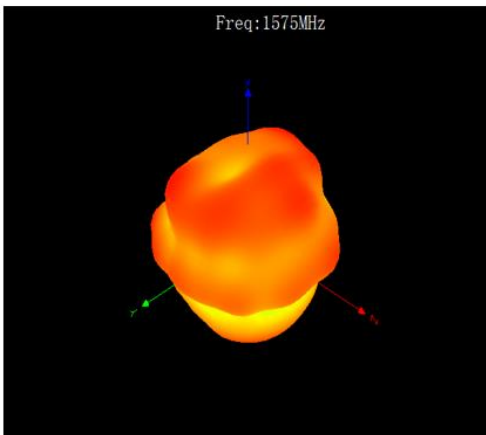
2500MHz



5150MHz



5850MHz



1575MHz